

Title (en)
Double direction seal with locking

Title (de)
Versiegelung in doppelter Richtung mit Sperre

Title (fr)
Joint bidirectionnel avec blocage

Publication
EP 2273163 B1 20180328 (EN)

Application
EP 10168603 A 20100706

Priority
• US 22394709 P 20090708
• US 82814310 A 20100630

Abstract (en)
[origin: EP2273163A2] Lip type rotary seal assemblies are generally discussed herein and particularly those with double directional sealing, wherein the tip of the two sealing lips (26, 28) point in opposite directions. A locking ring (22) is incorporated to retain the seal assembly (10) in the housing. The seal is configured to provide different sealing forces at each end to provide flexibility and enhanced performance where two different conditions on each side of the seal can exist, such as different sealing medium, fluid viscosity, pressure, and rotary speed.

IPC 8 full level
F16J 15/32 (2016.01)

CPC (source: EP US)
F16J 15/3212 (2013.01 - EP US); **F16J 15/3232** (2013.01 - EP US); **F16J 15/3236** (2013.01 - US); **Y10T 29/49826** (2015.01 - EP)

Citation (examination)
US 2009166982 A1 20090702 - KONDO YOSUKE [JP], et al

Cited by
CN104595493A; EP2846068A3; EP3830456A4; US10107428B2; US9194497B2; EP3217046B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
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